

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P942032

Luminaire Tested: **GALN-SB5D-835-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-835-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

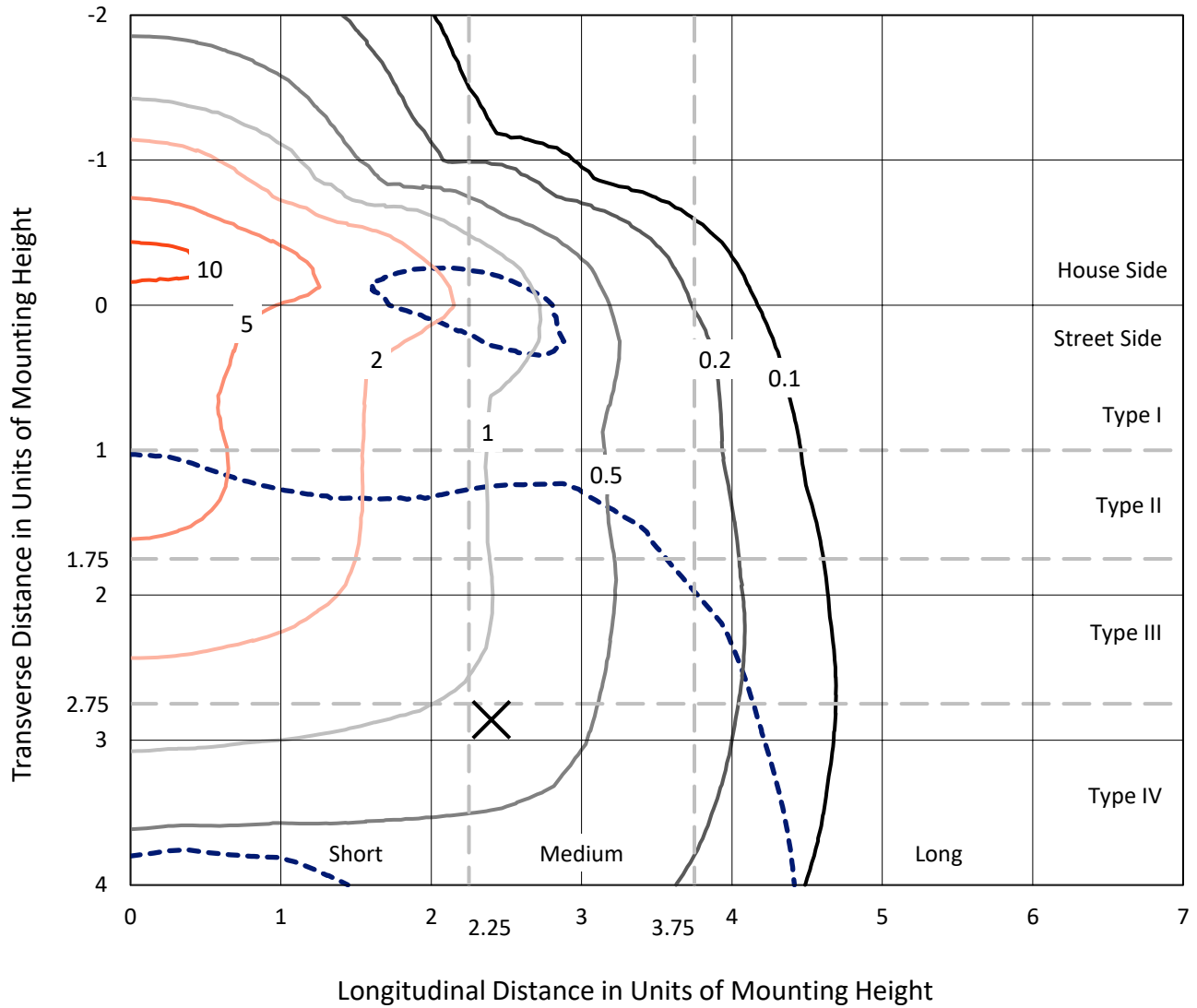
Lumens per Lamp: N/A  
Luminaire Lumens: 47262 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

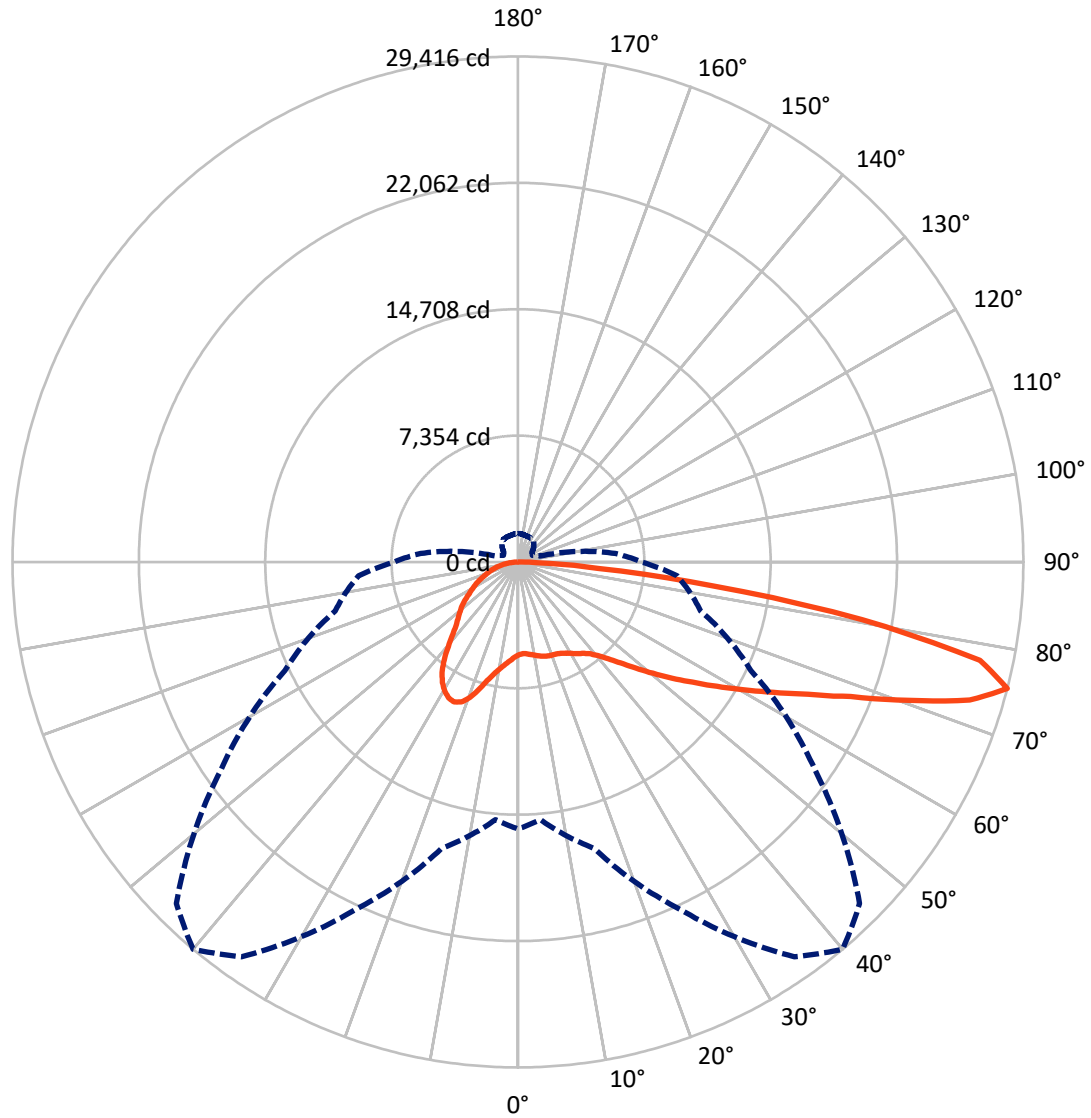
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14643.3	0.0	14643.3
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	32618.7	0.0	32618.7
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	47262.0	0.0	47262.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.5	1.1
10°-20°	1811.2	3.8
20°-30°	3307.2	7.0
30°-40°	4690.5	9.9
40°-50°	6333.6	13.4
50°-60°	8520.4	18.0
60°-70°	10814.3	22.9
70°-80°	9814.7	20.8
80°-90°	1430.7	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	47262.0	100.0
0°-180°	47262.0	100.0

**Coefficient of Utilization**



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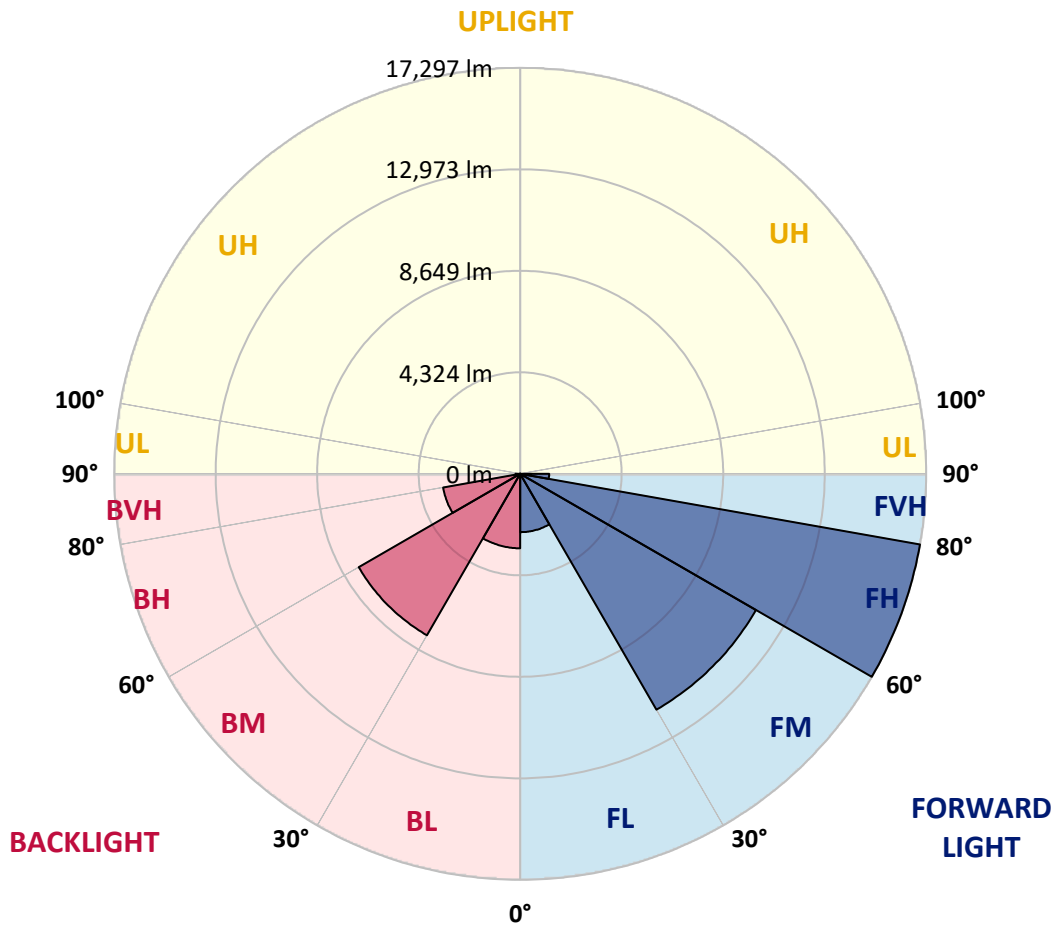
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.0	5.3			
FM (30°-60°)	11601.8	24.5			
FH (60°-80°)	17297.2	36.6			G5
FVH (80°-90°)	1233.7	2.6			G5
BL (0°-30°)	3171.9	6.7	B4/5000		
BM (30°-60°)	7942.7	16.8	B4/8500		
BH (60°-80°)	3331.8	7.0	B4/5000		G4/5000
BVH (80°-90°)	197.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5
2.5°	5321.8	5351.8	5344.3	5334.3	5334.3	5336.8	5334.3	5351.8	5369.4	5386.9
5°	5376.9	5407.0	5391.9	5379.4	5369.4	5366.9	5359.4	5356.8	5366.9	5389.4
7.5°	5484.7	5514.8	5492.2	5469.6	5449.6	5439.6	5429.5	5414.5	5407.0	5419.5
10°	5605.0	5635.1	5607.5	5567.4	5534.8	5522.3	5512.3	5497.2	5487.2	5494.7
12.5°	5725.3	5755.4	5717.8	5662.7	5620.0	5612.5	5600.0	5595.0	5592.5	5590.0
15°	5838.1	5863.2	5815.6	5750.4	5705.3	5692.7	5680.2	5687.7	5700.3	5715.3
17.5°	5925.9	5950.9	5880.7	5795.5	5752.9	5747.9	5740.4	5765.4	5800.5	5838.1
20°	6006.1	6031.2	5940.9	5825.6	5775.5	5775.5	5778.0	5830.6	5880.7	5935.9
22.5°	6118.9	6138.9	6028.6	5870.7	5798.0	5803.0	5823.1	5875.7	5938.4	6013.6
25°	6286.8	6301.9	6166.5	5955.9	5873.2	5888.3	5905.8	5930.9	5991.0	6078.8
27.5°	6557.6	6570.1	6392.1	6106.4	5981.0	6006.1	6031.2	6013.6	6041.2	6116.4
30°	6938.6	6946.1	6720.5	6342.0	6164.0	6176.5	6181.6	6108.9	6056.2	6116.4
32.5°	7389.8	7387.3	7119.1	6627.7	6372.1	6359.5	6316.9	6174.0	6051.2	6103.8
35°	8089.2	8061.6	7715.7	7028.8	6607.7	6530.0	6429.7	6246.7	6076.3	6091.3
37.5°	9247.3	9162.0	8683.3	7685.6	6958.6	6760.6	6612.7	6364.5	6131.4	6086.3
40°	10553.3	10445.5	9919.1	8585.5	7485.0	7166.7	6928.6	6532.5	6221.7	6108.9
42.5°	12102.4	11949.5	11383.0	9645.8	8151.8	7690.6	7332.1	6745.6	6354.5	6181.6
45°	14005.0	13802.0	12999.8	10841.5	8991.6	8377.4	7898.7	7068.9	6557.6	6321.9
47.5°	15927.7	15977.8	14837.2	12210.2	9999.3	9224.7	8608.1	7555.2	6853.4	6547.5
50°	17970.6	18005.7	16664.6	13726.8	11142.3	10182.3	9405.2	8099.2	7264.5	6868.4
52.5°	19564.9	19569.9	18324.1	15313.5	12333.0	11235.1	10265.0	8720.9	7740.7	7294.5
55°	20562.6	20550.0	19487.2	16815.0	13701.7	12340.5	11217.5	9427.7	8322.3	7795.9
57.5°	21287.0	21249.4	20289.3	18106.0	15160.6	13646.5	12295.4	10229.9	9009.1	8392.5
60°	21562.7	21540.2	20833.3	19221.5	16694.7	15090.4	13538.8	11127.3	9788.7	9096.9
62.5°	21668.0	21710.6	21367.2	20301.9	18336.6	16689.7	14904.9	12200.2	10666.1	9894.0
65°	22039.0	22116.7	22046.5	21715.7	20191.6	18562.2	16717.3	13476.1	11623.6	10748.8
67.5°	22773.5	22851.2	22881.3	23407.7	22457.6	20896.0	18978.3	15065.3	12744.1	11636.2
70°	22755.9	22733.4	23264.8	24753.8	25295.2	24127.1	22026.5	17020.6	14080.2	12373.1
72.5°	20713.0	20532.5	21788.3	24738.7	27656.6	27501.1	25749.0	19542.3	15233.3	12463.4
75°	15539.1	15057.8	17276.3	22294.7	28050.1	29416.3	28115.3	21106.5	14960.1	11012.0
77.5°	6645.3	6161.5	8776.0	16504.2	25104.7	27498.6	25944.5	18414.3	11942.0	7282.0
80°	1739.7	1737.2	2652.1	7482.5	17073.2	20306.9	17815.2	11891.8	6823.3	2602.0
82.5°	719.4	701.9	975.1	2910.3	8342.3	11395.5	9299.9	5304.2	2464.1	704.4
85°	268.2	265.7	473.8	1005.2	2942.9	4700.1	3401.6	1356.1	614.1	343.4
87.5°	75.2	72.7	102.8	348.4	716.9	1087.9	581.6	223.1	173.0	135.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5404.5	0°	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5	5404.5
5414.5	2.5°	5422.0	5434.6	5457.1	5474.7	5497.2	5522.3	5557.4	5579.9	5602.5	5617.5
5427.0	5°	5444.6	5472.2	5529.8	5587.5	5655.1	5717.8	5790.5	5843.1	5885.8	5898.3
5472.2	7.5°	5494.7	5539.8	5637.6	5735.4	5843.1	5945.9	6051.2	6141.4	6214.1	6241.7
5552.4	10°	5582.4	5642.6	5780.5	5918.3	6061.2	6219.2	6354.5	6484.9	6587.6	6630.3
5647.6	12.5°	5692.7	5767.9	5948.4	6138.9	6337.0	6555.1	6730.5	6891.0	7018.8	7076.5
5780.5	15°	5835.6	5933.4	6164.0	6419.7	6710.5	7013.8	7236.9	7414.9	7557.7	7627.9
5918.3	17.5°	5991.0	6121.4	6412.2	6798.2	7214.3	7612.9	7873.6	8003.9	8151.8	8219.5
6046.2	20°	6141.4	6301.9	6718.0	7279.5	7833.5	8257.1	8467.7	8502.8	8512.8	8520.3
6166.5	22.5°	6296.9	6512.4	7101.5	7886.1	8480.2	8773.5	8803.6	8653.2	8442.6	8344.8
6284.3	25°	6467.3	6753.1	7602.9	8555.4	9036.7	9071.8	8841.2	8475.2	8076.6	7893.6
6379.6	27.5°	6632.8	7031.3	8204.5	9194.6	9437.8	9129.4	8633.1	8114.2	7632.9	7439.9
6447.3	30°	6798.2	7349.7	8868.7	9753.6	9620.8	8986.6	8304.7	7725.7	7241.9	7038.8
6507.4	32.5°	6966.2	7720.7	9633.3	10157.2	9588.2	8683.3	7896.1	7289.5	6863.4	6650.3
6560.1	35°	7156.7	8176.9	10357.7	10377.8	9370.1	8237.1	7357.2	6768.1	6397.1	6226.7
6622.7	37.5°	7404.8	8755.9	10996.9	10432.9	8989.1	7582.8	6687.9	6151.5	5845.7	5767.9
6715.5	40°	7713.2	9452.8	11485.8	10345.2	8425.1	6788.2	5955.9	5527.3	5354.3	5371.9
6840.8	42.5°	8114.2	10232.4	11829.2	10119.6	7640.5	5968.5	5314.2	5123.7	5206.4	5276.6
7028.8	45°	8635.6	11042.1	12042.2	9736.1	6753.1	5274.1	4935.7	4980.8	5043.5	5051.0
7332.1	47.5°	9302.4	11861.8	12182.6	9157.0	5848.2	4785.3	4695.1	4705.1	4692.6	4639.9
7785.8	50°	10134.6	12658.9	12308.0	8390.0	5078.6	4479.5	4359.2	4324.1	4151.1	3980.7
8390.0	52.5°	11082.2	13390.9	12360.6	7437.4	4479.5	4223.8	4028.3	3807.7	3484.3	3431.7
9149.5	55°	12135.0	14067.7	12225.2	6266.8	3975.6	3895.4	3599.6	3333.9	3298.8	3253.7
10149.7	57.5°	13393.4	14797.1	11949.5	4960.8	3459.3	3511.9	3223.6	3253.7	3191.0	3120.9
11435.6	60°	14769.6	15551.6	11465.7	3770.1	2925.3	3033.1	3125.9	3123.4	3105.8	3048.2
12791.8	62.5°	16007.9	16048.0	10513.2	2887.7	2456.6	2662.1	2915.3	2912.8	2897.8	2865.2
14208.0	65°	16744.8	15972.8	8923.9	2273.6	2070.5	2356.3	2629.5	2649.6	2652.1	2649.6
15273.4	67.5°	16614.5	15092.9	6743.1	1809.8	1752.2	2045.5	2346.3	2373.9	2393.9	2398.9
15408.8	70°	15140.5	13160.2	4396.8	1443.9	1468.9	1772.2	2078.1	2105.6	2123.2	2143.2
13370.8	72.5°	11801.6	9675.9	2516.7	1168.1	1220.8	1536.6	1812.4	1844.9	1855.0	1892.6
9304.9	75°	7191.8	5690.2	1358.6	920.0	1002.7	1313.5	1549.1	1586.7	1604.3	1649.4
4569.7	77.5°	3419.2	2464.1	774.6	716.9	807.2	1072.9	1308.5	1351.1	1303.5	1328.6
1260.9	80°	1155.6	915.0	488.8	546.5	616.7	837.2	1047.8	1090.4	990.2	985.1
418.6	82.5°	403.6	371.0	310.8	363.5	398.6	599.1	792.1	847.3	737.0	734.5
188.0	85°	157.9	150.4	173.0	198.0	238.1	368.5	521.4	549.0	453.7	366.0
55.1	87.5°	32.6	35.1	42.6	45.1	72.7	127.8	188.0	230.6	183.0	155.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
5404.5
5607.5
5903.3
6244.2
6632.8
7076.5
7622.9
8217.0
8540.4
8372.4
7921.2
7462.5
7061.4
6677.9
6264.3
5823.1
5432.0
5341.8
5101.2
4680.0
4003.2
3449.2
3261.2
3108.3
3028.1
2852.6
2649.6
2403.9
2153.3
1907.6
1654.4
1308.5
975.1
699.4
361.0
142.9
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